

Viviana Scognamiglio

List of Publications by Year in descending order

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72
papers

2,946
citations

185998

28
h-index

174990

52
g-index

76
all docs

76
docs citations

76
times ranked

3773
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanotechnology in Agriculture: Which Innovation Potential Does It Have?. <i>Frontiers in Environmental Science</i> , 2016, 4, .	1.5	365
2	Nanotechnology in glucose monitoring: Advances and challenges in the last 10 years. <i>Biosensors and Bioelectronics</i> , 2013, 47, 12-25.	5.3	235
3	Carbon black as an outstanding and affordable nanomaterial for electrochemical (bio)sensor design. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112033.	5.3	177
4	Nanomaterials in electrochemical biosensors for pesticide detection: advances and challenges in food analysis. <i>Mikrochimica Acta</i> , 2016, 183, 2063-2083.	2.5	155
5	Biosensing technology for sustainable food safety. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 62, 1-10.	5.8	142
6	How cutting-edge technologies impact the design of electrochemical (bio)sensors for environmental analysis. A review. <i>Analytica Chimica Acta</i> , 2017, 959, 15-42.	2.6	133
7	Nanostructured (Bio)sensors for smart agriculture. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 98, 95-103.	5.8	115
8	Biosensors for effective environmental and agrifood protection and commercialization: from research to market. <i>Mikrochimica Acta</i> , 2010, 170, 215-225.	2.5	79
9	Optical biosensors for environmental monitoring based on computational and biotechnological tools for engineering the photosynthetic D1 protein of <i>Chlamydomonas reinhardtii</i> . <i>Biosensors and Bioelectronics</i> , 2009, 25, 294-300.	5.3	68
10	Photosynthesis at the forefront of a sustainable life. <i>Frontiers in Chemistry</i> , 2014, 2, 36.	1.8	65
11	Green nanomaterials fostering agrifood sustainability. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 125, 115840.	5.8	62
12	Structure-based design of novel <i>Chlamydomonas reinhardtii</i> D1-D2 photosynthetic proteins for herbicide monitoring. <i>Protein Science</i> , 2009, 18, 2139-2151.	3.1	57
13	Structure/Function/Dynamics of Photosystem II Plastoquinone Binding Sites. <i>Current Protein and Peptide Science</i> , 2014, 15, 285-295.	0.7	56
14	Porous silicon-based optical microsensor for the detection of l-glutamine. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1664-1667.	5.3	55
15	Analytical tools monitoring endocrine disrupting chemicals. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 555-567.	5.8	53
16	Synthetic biology and biomimetic chemistry as converging technologies fostering a new generation of smart biosensors. <i>Biosensors and Bioelectronics</i> , 2015, 74, 1076-1086.	5.3	48
17	Biotechnological Advances in the Design of Algae-Based Biosensors. <i>Trends in Biotechnology</i> , 2020, 38, 334-347.	4.9	46
18	The convergence of forefront technologies in the design of laccase-based biosensors – An update. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 119, 115615.	5.8	45

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19	An eco-designed paper-based algal biosensor for nanoformulated herbicide optical detection. <i>Journal of Hazardous Materials</i> , 2019, 373, 483-492.	6.5	45
20	New Platform of Biosensors for Prescreening of Pesticide Residues To Support Laboratory Analyses. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 5982-5990.	2.4	43
21	Isothermal amplification-assisted diagnostics for COVID-19. <i>Biosensors and Bioelectronics</i> , 2022, 205, 114101.	5.3	40
22	The technology tree in the design of glucose biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 120, 115642.	5.8	38
23	<i>Chlamydomonas reinhardtii</i> genetic variants as probes for fluorescence sensing system in detection of pollutants. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1081-1087.	1.9	36
24	Towards an integrated biosensor array for simultaneous and rapid multi-analysis of endocrine disrupting chemicals. <i>Analytica Chimica Acta</i> , 2012, 751, 161-170.	2.6	36
25	Electrospray deposition as a smart technique for laccase immobilisation on carbon black-nanomodified screen-printed electrodes. <i>Biosensors and Bioelectronics</i> , 2020, 163, 112299.	5.3	35
26	Binding of glutamine to glutamine-binding protein from <i>Escherichia coli</i> induces changes in protein structure and increases protein stability. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 58, 80-87.	1.5	30
27	Carbon black nanoparticles to sense algae oxygen evolution for herbicides detection: Atrazine as a case study. <i>Biosensors and Bioelectronics</i> , 2020, 159, 112203.	5.3	30
28	The role of calcium in the conformational dynamics and thermal stability of the D-galactose/D-glucose-binding protein from <i>Escherichia coli</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 184-195.	1.5	29
29	Unfolding and Refolding of the Glutamine-Binding Protein from <i>Escherichia coli</i> and Its Complex with Glutamine Induced by Guanidine Hydrochloride. <i>Biochemistry</i> , 2005, 44, 5625-5633.	1.2	27
30	Rapid and label-free detection of ochratoxin A and aflatoxin B1 using an optical portable instrument. <i>Talanta</i> , 2016, 150, 440-448.	2.9	26
31	Binding of Glucose to the d-Galactose/d-Glucose-Binding Protein from <i>Escherichia coli</i> Restores the Native Protein Secondary Structure and Thermostability That Are Lost upon Calcium Depletion. <i>Journal of Biochemistry</i> , 2006, 139, 213-221.	0.9	25
32	Automatable Flow System for Paraoxon Detection with an Embedded Screen-Printed Electrode Tailored with Butyrylcholinesterase and Prussian Blue Nanoparticles. <i>Chemosensors</i> , 2015, 3, 129-145.	1.8	25
33	Paper-Based Electrochemical Devices in Biomedical Field. <i>Comprehensive Analytical Chemistry</i> , 2017, 77, 385-413.	0.7	25
34	Sustainable materials for the design of forefront printed (bio)sensors applied in agrifood sector. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 128, 115909.	5.8	25
35	Reusable optical multi-plate sensing system for pesticide detection by using electrospun membranes as smart support for acetylcholinesterase immobilisation. <i>Materials Science and Engineering C</i> , 2020, 111, 110744.	3.8	24
36	Protein-Based Biosensors for Diabetic Patients. <i>Journal of Fluorescence</i> , 2004, 14, 491-498.	1.3	23

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37	A new embedded biosensor platform based on micro-electrodes array (MEA) technology. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 275-283.	4.0	23
38	What makes nanotechnologies applied to agriculture green?. <i>Nano Today</i> , 2022, 43, 101389.	6.2	23
39	D-galactose/D-glucose-binding Protein from <i>Escherichia coli</i> as Probe for a Non-consuming Glucose Implantable Fluorescence Biosensor. <i>Sensors</i> , 2007, 7, 2484-2491.	2.1	21
40	Emerging technologies in the design of peptide nucleic acids (PNAs) based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116062.	5.8	19
41	Paper-Based Electrochemical Devices for the Pharmaceutical Field: State of the Art and Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 339.	2.0	19
42	The plastoquinolâ€plastoquinone exchange mechanism in photosystem II: insight from molecular dynamics simulations. <i>Photosynthesis Research</i> , 2017, 131, 15-30.	1.6	18
43	A dual electro-optical biosensor based on <i>Chlamydomonas reinhardtii</i> immobilised on paper-based nanomodified screen-printed electrodes for herbicide monitoring. <i>Journal of Nanobiotechnology</i> , 2021, 19, 145.	4.2	18
44	Photosynthesis-based hybrid nanostructures: Electrochemical sensors and photovoltaic cells as case studies. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 115, 100-109.	5.8	17
45	Nanomaterial-based sensors. , 2020, , 329-359.		17
46	A Strategic Fluorescence Labeling of d-Galactose/d-Glucose-Binding Protein from <i>Escherichia coli</i> Helps to Shed Light on the Protein Structural Stability and Dynamics. <i>Journal of Proteome Research</i> , 2007, 6, 4119-4126.	1.8	16
47	Fluorescence Properties of Glutamine-Binding Protein from <i>Escherichia coli</i> and Its Complex with Glutamine. <i>Journal of Proteome Research</i> , 2005, 4, 417-423.	1.8	15
48	A Thermostable Sugar-Binding Protein from the Archaeon <i>Pyrococcus horikoshii</i> as a Probe for the Development of a Stable Fluorescence Biosensor for Diabetic Patients. <i>Biotechnology Progress</i> , 2004, 20, 1572-1577.	1.3	14
49	The Odorant-Binding Protein from <i>Canis familiaris</i> : Purification, Characterization and New Perspectives in Biohazard Assessment. <i>Protein and Peptide Letters</i> , 2006, 13, 349-352.	0.4	14
50	A whole cell optical bioassay for the detection of chemical warfare mustard agent simulants. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 658-665.	4.0	14
51	Photoautotrophsâ€™ Bacteria Co-Cultures: Advances, Challenges and Applications. <i>Materials</i> , 2021, 14, 3027.	1.3	14
52	Glutamine-Binding Protein from <i>Escherichia coli</i> Specifically Binds a Wheat Gliadin Peptide. 2. Resonance Energy Transfer Studies Suggest a New Sensing Approach for an Easy Detection of Wheat Gliadin. <i>Journal of Proteome Research</i> , 2006, 5, 2083-2086.	1.8	13
53	A Choline Oxidase Amperometric Bioassay for the Detection of Mustard Agents Based on Screen-Printed Electrodes Modified with Prussian Blue Nanoparticles. <i>Sensors</i> , 2015, 15, 4353-4367.	2.1	13
54	Design and biophysical characterization of atrazine-sensing peptides mimicking the <i>Chlamydomonas reinhardtii</i> plastoquinone binding niche. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13108.	1.3	12

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55	Commercially Available (Bio)sensors in the Agrifood Sector. <i>Comprehensive Analytical Chemistry</i> , 2016, 74, 315-340.	0.7	12
56	Organophosphorous Pesticide Detection in Olive Oil by Using a Miniaturized, Easy-to-Use, and Cost-Effective Biosensor Combined with QuEChERS for Sample Clean-Up. <i>Sensors</i> , 2017, 17, 34.	2.1	12
57	Multi-potential biomarkers for seafood quality assessment: Global wide implication for human health monitoring. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116056.	5.8	11
58	High-Tech and Nature-Made Nanocomposites and Their Applications in the Field of Sensors and Biosensors for Gas Detection. <i>Biosensors</i> , 2020, 10, 176.	2.3	11
59	State of the Art on the SARS-CoV-2 Toolkit for Antigen Detection: One Year Later. <i>Biosensors</i> , 2021, 11, 310.	2.3	11
60	A Recombinant Glutamine-Binding Protein from <i>Escherichia coli</i> : Effect of Ligand-Binding on Protein Conformational Dynamics. <i>Biotechnology Progress</i> , 2004, 20, 1847-1854.	1.3	9
61	Treated Gold Screen-Printed Electrode as Disposable Platform for Label-Free Immunosensing of <i>Salmonella Typhimurium</i> . <i>Electrocatalysis</i> , 2019, 10, 288-294.	1.5	8
62	Next-generation diagnostics: Augmented sensitivity in amplification-powered biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 148, 116538.	5.8	8
63	Computational Biology, Protein Engineering, and Biosensor Technology: a Close Cooperation for Herbicides Monitoring. , 2011, , .		6
64	Novel atrazine-binding biomimetics inspired to the D1 protein from the photosystem II of <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Biological Macromolecules</i> , 2020, 163, 817-823.	3.6	6
65	Nanobiosensors for Bioclinical Applications: Pros and Cons. <i>Nanotechnology in the Life Sciences</i> , 2020, , 117-149.	0.4	6
66	Electrochemical Biosensors for Chemical Warfare Agents. <i>Advanced Sciences and Technologies for Security Applications</i> , 2016, , 115-139.	0.4	6
67	Efforts, Challenges, and Future Perspectives of Graphene-Based (Bio)sensors for Biomedical Applications. , 2018, , 133-150.		5
68	A Proof-of-Concept Electrochemical Cytosensor Based on <i>Chlamydomonas reinhardtii</i> Functionalized Carbon Black Screen-Printed Electrodes: Detection of <i>Escherichia coli</i> in Wastewater as a Case Study. <i>Biosensors</i> , 2022, 12, 401.	2.3	4
69	Odor binding protein as probe for a refractive index-based biosensor: new perspectives in biohazard assessment. , 2004, 5321, 258.		3
70	Enhancing resistance of <i>Chlamydomonas reinhardtii</i> to oxidative stress fusing constructs of heterologous antioxidant peptides into D1 protein. <i>Algal Research</i> , 2021, 54, 102184.	2.4	2
71	Photosynthesis-based biosensors for environmental analysis of herbicides. <i>Case Studies in Chemical and Environmental Engineering</i> , 2021, , 100157.	2.9	2
72	Quantum dots functionalised artificial peptides bioinspired to the D1 protein from the Photosystem II of <i>Chlamydomonas reinhardtii</i> for endocrine disruptor optosensing. <i>Talanta</i> , 2021, 224, 121854.	2.9	1